

This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

1. (Original) A system for accessing data stored at a remote host in a computer network, comprising:

a proxy server having a code section including instructions for receiving a request for data from a client, and making a determination whether the requested data should be rendered before transmission to the client; and

a processing server coupled to the proxy server and having a code section including instructions for receiving the rendering determination from the proxy server, rendering the requested data, and transmitting the rendered data to the client.

2. (Original) The system of claim 1, wherein

the proxy server further comprises a code section including instructions for storing the requested data in an intermediate data store if it is determined that the requested data should be rendered before transmission to the client; and

the processing server further comprises a code section including instructions for retrieving data stored in the intermediate data store.

3. (Original) The system of claim 1, wherein

the proxy server includes a code section including instructions for transmitting address information to the processing server, wherein the address information corresponds to the storage location of the requested data at a data server; and

the processing server includes a code section containing instructions for retrieving the requested data from the data server.

4. (Original) The system of claim 3, wherein the proxy server further comprises

a code section containing instructions for generating a link message containing address information corresponding to the requested data; and

a code section containing instructions for transmitting the link message to the client.

5. (Original) The system of claim 4, wherein the link message further includes data type information describing the requested data.

6. (Original) The system of claim 4, wherein the link message further includes a client identifier and a session identifier.

7. (Original) The system of claim 3, wherein the address information of the requested data comprises a URL and the data type information comprises a MIME type.

8. (Original) The system of claim 3, wherein the client further comprises a data handler including a code section containing instructions for establishing a communication link between the client and the processing server and for receiving the rendered data from the processing server.

9. (Original) The system of claim 1, wherein the proxy server includes a code section containing instructions for directly transmitting the requested data to the client upon the

proxy server determining that the requested data do not have to be rendered before transmission to the client.

10. (Currently Amended) A computer-based method comprising:

receiving a data request from a client at a proxy server;

evaluating the data request at the proxy server to determine whether data specified in the data request should be rendered;

generating a rendering request for transmission to a processing server upon the proxy server determining that data specified in the data request should be rendered before transmission to the client;

generating rendered data by rendering data at the processing server upon receiving said rendering request from the proxy server; and

transmitting the rendered data, by the processing server, to the client.

11. (Original) The method of claim 10, comprising
retrieving the requested data from a data server;
storing the requested data in an intermediate data store upon the proxy server determining that the requested data should be rendered before transmission to the client;
and

transmitting the requested data from the intermediate data store to the processing server.

12. (Original) The method according to claim 10, wherein
transmitting from the proxy server to the processing server address information corresponding to the location of the requested data on a data server; and

retrieving the requested data from the data server to the processing server using the address information.

13. (Original) The method of claim 10, comprising generating a link message containing address information of the requested data; and transmitting the link message to the client.

14. (Original) The method of claim 13, wherein the link message further includes address information of the processing server.

15. (Original) The method of claim 14, wherein the address information of the requested data comprises a URL.

16. (Original) The method of claim 13, wherein the link message further includes data type information describing the requested data.

17. (Original) The method of claim 16, wherein the data type information comprises a MIME type.

18. (Original) The method of claim 13, wherein the link message further includes a client identifier and a session identifier.

19. (Original) The method of claim 10, further comprising:

establishing a communication link between the client and the processing server; and
receiving the rendered data from the processing server.

20. (Original) The method of claim 10, further comprising transmitting the requested data directly to the client upon the proxy server determining that the requested data should not be rendered before transmission to the client.

21. (Original) The method of claim 10, comprising pre-selecting requests for data into a first category comprising requests wherein the requested data should be rendered, and a second category wherein the requested data should not be rendered;

transmitting requests in the first category to the proxy server; and

transmitting the requested data corresponding to requests in the second category directly to the client.

22. (Original) The method according to claim 10, wherein at least the proxy server, the processing server, and the intermediate data storage are connected on a local area network.

23. (Currently Amended) A computer-based method for accessing data in a computer network, comprising:

receiving a request for data from a client at proxy server;

determining whether the requested data have to be rendered before transmission to the client; and

authorizing a processing server to render the data at and to transmit the rendered data to the client from the processing server.

24. (Original) The method of claim 23, further comprising

retrieving the requested data from a data server;

storing the requested data in an intermediate data store upon the proxy server determining that the requested data have to be rendered before transmission to the client; and

authorizing the processing server to retrieve the data stored in the intermediate data store.

25. (Original) The method of claim 23, wherein the proxy server transmits address information of the requested data to the processing server, and the processing server retrieves the requested data from a data server using the address information.

26. (Original) The method of claim 23, comprising generating a link message containing address information of the requested data; and transmitting the link message to the client.

27. (Original) The method of claim 26, wherein the link message further includes address information of the processing server.

28. (Original) The method of claim 27, wherein the address information of the requested data comprises a URL.

29. (Original) The method of claim 26, wherein the link message further includes data type information describing the requested data.

30. (Original) The method of claim 29, wherein the data type information is expressed using MIME data representations.

31. (Original) The method of claim 26, wherein the link message further includes a client identifier and a session identifier.

32. (Original) The method of claim 23, further comprising

activating a data handler for establishing a communication link between the client and the processing server and for receiving the rendered data from the processing server.

33. (Original) The method of claim 23, further comprising directly transmitting the requested data to the client if the proxy server determines that the requested data do not have to be rendered before transmission to the client.

34. (Original) The method of claim 23, wherein the processing server may comprise any of a plurality of processing servers configured to render and transmit data, and the proxy server may receive data from a plurality of clients and may retrieve data from a plurality of data servers.

35. (Currently Amended) A method for accessing data in a network, comprising:

receiving a message at a processing server to render data requested by a client;

retrieving the requested data from an intermediate data store;

transmitting the requested data to the processing server;

rendering the requested data at the processing server; and

transmitting, by the processing server, the rendered data to the client.

36. (Original) The method of claim 35, wherein the processing server is instructed by a data handler running at the client to retrieve the requested data from the intermediate data store.

37. (Original) The method of claim 35, wherein the processing server
receives address information corresponding to the requested data, and
retrieves the requested data from a data server using the address information.

38. (Original) The method of claim 35, wherein the message to render data requested by the client is pre-selected.

39. (Currently Amended) A computer program product comprising a medium configured to store or transport computer readable code for a method comprising:

receiving a request for data from a client at a proxy server;

determining whether the requested data have to be rendered before transmission to the client;

rendering the data at a processing server; and

transmitting, by the processing server, the rendered data to the client.

40. (Currently Amended) A proxy server comprising:
a processor; and

a memory connected to said processor, and containing code containing instructions configured, upon execution of said instructions by the processor, to cause the proxy server

to receive a data request from a client;

to determine whether the data requested by the client should be rendered, and

to retrieve the requested data from a data server;
and

to authorize a processing server to retrieve and render the requested data in accordance with the determination of the proxy server, and to transmit, by the processing server, the rendered data to the client.

41. (Currently Amended) The proxy server of claim 4039, wherein the memory further includes a code section containing instructions configured upon execution of said instructions by the processor to cause the proxy server

to store the requested data in an intermediate data store upon the proxy server determining that the requested data should be rendered before transmission to the client, and

to authorize the processing server to retrieve the data stored in the intermediate data store.

42. (Currently Amended) The proxy server of claim 4039, wherein the memory further includes a code section containing instructions configured upon execution of said instructions by the processor to cause the proxy server

to transmit address information of the requested data to the processing server, and

to instruct the processing server to retrieve the requested data from a data server using the address information.

43. (Currently Amended) The proxy server of claim 4039, wherein the memory further includes a code section containing instructions configured upon execution of said instructions by the processor to cause the proxy server

to generate a link message containing the address information of the requested data, and
to transmit the link message to the client.

44. (Currently Amended) The proxy server of claim 4039, wherein the link message comprises
address information of the processing server, and
data type information describing the requested data.

45. (Original) The proxy server of claim 43, wherein the link message further comprises a client identifier and a session identifier.

46. (Currently Amended) The proxy server of claim 4039, wherein the memory further includes a code section containing instructions configured upon execution of said instructions by the processor to cause the proxy server
to activate a data handler to establish a
communication link between the client and the processing server, and
to receive the rendered data from the processing server.

47. (Currently Amended) The proxy server of claim 4039, wherein the memory further includes a code section containing instructions configured, upon execution of said instructions by the processor, to cause the proxy server
to directly transmit the requested data to the client
if the proxy server determines that the requested data do not have to be rendered before transmission to the client.

48. (Currently Amended) The proxy server of claim 4039, wherein the processing server authorized by the proxy server comprises

a processor;

a memory operatively ~~operatively~~ connected to said processor, and storing code containing instructions configured, upon execution of said instructions by the processor, to cause the processing server

to receive an instruction message to render data requested by a client;

to retrieve the requested data from an intermediate data store; and

to contain instructions for transmitting the rendered data to the client.

49. (Original) The proxy server of claim 47, wherein the memory of the processing server further includes code containing instructions configured, upon execution of said instructions by the processor, to cause the processing server

to receive an instruction message from a data handler at the client to establish a communication link between the client and the processing server.

50. (Original) The proxy server of claim 47, wherein the memory of the processing server further includes code containing instructions configured, upon execution of said instructions by the processor, cause the processing server

to retrieve the requested data based on address information corresponding to an intermediate data store.

51. (Original) The proxy server of claim 47, wherein the memory of the processing server further includes code containing instructions configured, upon execution of said instructions by the processor, to cause the processing server

to retrieve the requested data based on address information from a data server.

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52. (Original) The proxy server of claim 47, wherein the proxy server, the processing server, and the intermediate data store are connected by a local area network.